

## **INDOT Check List for MSE Wall Construction**

The following is a general checklist to follow when constructing a Mechanically Stabilized Earth wall (MSE wall). The answer to each of these should be yes unless plans, specifications or specific approval has been given otherwise.

YES NO

01.   Has the contractor submitted wall shop drawings?
02.   Has the contractor submitted select backfill certification?
03.   Has the contractor furnished a copy of any instructions the wall supplier may have furnished?
04.   Has the contractor supplied a Certificate of Compliance that the wall materials comply with the applicable sections of the specifications? Has the contractor supplied a copy of all test results performed by the Contractor supplier to assure compliance with specifications?
05.   Have the shop drawings been approved?
06.   Has the geotechnical report been checked for undercutting?
07.   Did the contractor receive the correct panels (shape, size and soil reinforcement connection layout) per the approved shop drawings?
08.   Did the contractor receive the correct reinforcement (proper length and size)?
09.   Have the panels and the reinforcement been Inspected for damage as outlined in the Specs?.
10.   If any panels or soil reinforcement were found damaged have they been rejected or repaired in accordance with the specifications?
11.   Are the panels and the soil reinforcement properly stored to prevent damage?

**YES NO**

- 12.   **Has the MSE wall area been excavated to the proper elevation?**
- 13.   **Has the area been proof rolled(a minimum of five passes by a roller weighing a minimum of 8 tons)?**
- 14.   **Has all soft or unsuitable materials been compacted or removed and replaced?**
- 15.   **Has the leveling pad area been properly excavated?**
- 16.   **Has the leveling pad been set to the proper alignment?**
- 17.   **Has the leveling pad cured for a minimum of 12 hours?**
- 18.   **Is the first row of panels properly placed? Do they have proper spacing, bracing, tilt and where required, do they the spacers installed?**
- 19.   **Has the proper filter fabric and adhesive been supplied?**
- 20.   **Is the filter fabric being properly placed over the joints?**
- 21.   **Is the adhesive being applied to the panel, than the filter fabric being placed?**
- 22.   **Is the filter fabric stored properly away from sunlight and protected from UV radiation?**
- 23.   **Is the contractor using correct panels (size, shape & # of connections) for that panel's wall location & elevation?**
- 24.   **Is fill being placed and compacted in 6 inch lifts?**
- 25.   **Is the equipments are kept off the reinforcement until a minimum of 6 inches of fill is placed?**
- 26.   **Are the lifts being placed by the proper method and sequence?**
- 27.   **Is the fill being compacted by the correct equipment and in the correct pattern?**
- 28.   **Is the proper compaction being met within 3 feet of wall and greater than 3 feet from the wall based on DCP criteria?**
- 29.   **Is the fill being brought up to or slightly above the soil reinforcement elevation before the reinforcement are connected?**
- 30.   **Is the reinforcement being properly connected?**

**YES NO**

- 31.   Is the soil reinforcement in the proper alignment?**
- 32.   Is the vertical and horizontal alignments are checked periodically and adjusted as needed?**
- 33.   Is the contractor removing the wooden wedges as per specification?**
- 34.   At the end of each day's operation is the contractor shaping the last level of backfill to permit a positive drainage away from the wall such as temporary pipe etc.?**
- 35.   Has the contractor backfilled the front of the wall?**
- 36.   Is the correct coping being installed?**